



B.A.R.G. NEWS



NOVEMBER 1995 VOL 18 NO 10

NEWSLETTER OF THE BALLARAT AMATEUR RADIO GROUP INC.

*Join in the FUN
SSTV is alive & well
on 28.470 mHz
Saturdays - 2PM*

Well worth the effort !



Get details from Charlie (DCS) Doug (KAY)
Richard (JFL) or Cliff (CCB). Liaison - 146.450mhz.



BALLARAT AMATEUR RADIO GROUP INC.

OFFICE BEARERS - 1995 / 1996



			WORK	HOME
PRESIDENT	GORDON CORNELL	VK3FGC	391135	392427
VICE PRESIDENT	DOUG RAPER	VK3VBA	015-368922	323565
IMM.PAST PRESIDENT	BOB TERRILL	VK3BNC		395317
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TREASURER	HARRY HEKKEMA	VK3KGL		357563
MEMBERSHIP SECRETARY	NORM D'ANGRI	VK3LBA		341613
NEWSLETTER EDITOR	NORM D'ANGRI	VK3LBA		341613
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EXAMINATIONS OFFICER	CHARLIE STEWART	VK3DCS		317425
TECH. OFFICER	DICK ANTOSIEWICZ	VK3AEX		323273
TECH. OFFICER (DIGITAL)	TOM GEORGE	VK3DMK	327234	
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MEMBERS' REP.	REG CARTER	VK3CAZ		417585
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NET CO-ORDINATOR	CLIFF BILSTON	VK3CCB		361249
AWARDS MANAGER	RON WATKINS	VK3ZHH	667200	327141
LIBRARIAN / HISTORIAN	RICHARD VOSS	VK3JFL		326048
PUBLICITY OFFICER	DOUG RAPER	VK3VBA	015-368922	323565
PROPERTY OFFICER	JEFF PIGDON	VK3PAP	311211	327041
WICEN COMMITTEE	GORDON CORNELL	VK3FGC	391135	392427
	GEOFF SMITH	VK3ADB	358601	332112
	TOM GEORGE	VK3DMK	327234	
	DICK ANTOSIEWICZ	VK3AEX		323273
	IAN McDONALD	VK3AXH		
	DICK FORRESTER	VK3VU	337080	357663
	DAVID McCONNELL	VK3YNB		
	BEN ORCHARD	VK3TOP		203601
	RICHARD VOSS	VK3JFL		326048
	IAN ROBINSON	VK3FD	278175	358031
	TOM GEORGE	VK3DMK	327234	
	CLIFF BILSTON	VK3CCB		361249

LIFE MEMBERS:	MAURIE BATT (VK3XEX) SK	IAN McDONALD (VK3AXH)
	GEORGE SMALL (VK3DKJ) SK	JIM WRIGHT (VK3CFB)
	KEVIN HUGHES (VK3WN)	PHIL SEDDON (VK3AQM)
	STAN WIDGERY (VK3SE)	

CLUB STATION

VK3 BML

REPEATERS

VK3RBA (Voice)	146.750 MHz. - Mt.Buninyong.
VK3RBS (Voice)	146.900 MHz. - Smeaton Hill
VK 3RPC (Packet)	144.750 MHz. - Mt.Warrenheip.
VK3RBU (Voice)	438.475 MHz. - Mt.Hollowback.
VK3RMB (Beacon)	432.535 MHz. - Mt.Buninyong.
VK3RBV (ATV)	426.250 MHz. - Ballarat

ACTIVITIES

CLUB NET: Thursday nights at 8 pm. (8.30 pm during Daylight Saving). Freq: 3.610 MHz +/- QRM.

2 METRE SCRAMBLE: Sunday Nights at 7.50 pm. Freq: 146.425 to 146.600 MHz. Inc,

Call back held on VK3RBA 146.750 MHz.

Logs **monthly** to D.Quirk - P.O. Box 78 - Newstead 3462 (or Meeting) to qualify.

MEETINGS: General Meeting : Last Friday of each month (except December) at 7.30 pm.

Natter Night : 2nd Friday of each month.

Venue: Ballarat Adult & Further Education Centre (BRACE) 602 Urquhart St. (Cnr. Windemere St.)

FOX HUNTING: As arranged during the year.

PLEASE ADDRESS ALL CORRESPONDENCE to:

The Secretary - BARG Inc.
Box 1261
Mail Centre
Ballarat 3354

DISCLAIMER

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The Minutes

MINUTES OF BARG MEETING HELD 27TH. OCTOBER 95.



3

The meeting was formally opened by Gordon VK3FGC at 7-40pm.

Members and guests were given a hearty welcome and apologies were accepted on behalf of the following VK3's : CFB, NIZ, DS, YMW, AEX, ZHH, FMC, LDC, LPM & Val.

BEST WISHES for a speedy recovery were extended to Vera - XYL of Jim VK3CFB DMK / BNC.

MINUTES of the last meeting were accepted as circulated after the minor correction of the amount for publicity. Should have read: Publicity - Ads for Hamvention - Ballarat News - \$200.00.

CIS / VBA

TREASURER Accounts for payment

SMB (Newsletter P/Copying)	\$100.00
Newletter Postage	\$ 47.75
BRACE Room Hire	\$100.00
VK3TOP - ATV Module	\$124.90
VK3ADB - Sec.Postage etc.	\$ 28.29 KGL/DCS

CORRESPONDENCE Resignation regretfully accepted from VK3CFD

DOK / CFH

Magazines from Amateur Radio (with promotional material)

Hervey Bay ARC

Capricornia ARC (Note - visit by VK3DOK) DMK / ANH

REPORTS

Technical : RPC antenna to be replaced on Warrenheip by Ballarat Communications. Tnks. Lee

CLUB ROOM

Les VK3JEM to chair a committee of investigatees to finalise a new club room venue.

Thanks Les and good luck with your charter.

NET - Note new time of 8.30pm EAST for duration of Daylight Saving. - 3.610 mHZ +/- QRM. Thurs.

EDUCATION - 50% pass rate at last exams. Congratulations Darren VK3HBL.

PUBLICITY - Banners are completed for Hamvention. Many thanks to Val - XYL of Doug VK3VBA for donation of "Bobby BARG" to raffle for funds. We appreciate the thought.

WICEN - Informative training session with Lindsay Florence Dep. Comm. of Police Ballarat, as guest speaker.

QSL CARDS - 91 cards received this month.

Very little DX but some great openings on 10M & 15M SSB / FM.

SCRAMBLE Great times had by all. Reg VK3CAZ having difficulty logging contacts.

(suggest he try CW ! - Sec)

GENERAL BUSINESS.

NEW AWARD - Donation from Peter Tobin and Peter Davies (75\$ each) towards the venture.

MOTION: That a committee, chaired by VK3ZHH / VK3JFL be appointed to investigate the presentation and promotion of an EUREKA AWARD. ADB / CCB

SMA has been informally approached re the use of VI EUREKA for the event.

NOTE OF THANKS To VK3DMK and VK3CCB for their help in preparing the venue for the Hamvention. - Great teamwork fellas!

HAMVENTION Tom VK3DMK spoke of the final tasks and confirmed posts for the event..

MEETING CLOSED at 8.30pm.

NEXT MEETING (Last for year) Friday 24th. November.

FINALLY: Don't be afraid to go out on a limb - That's where the fruit is!

Enjoy your month 73 de Geoff VK3ADB.

NOVEMBER 1895

100 Years of X-Rays

NOVEMBER 1995



Wilhelm Conrad Röntgen was born in 1845 near Dusseldorf in Germany.

Today he is acknowledged as one of the great natural scientists, as his discovery of X-rays 100 years ago this month, was crucial in allowing physics to enter the "modern atomic era".

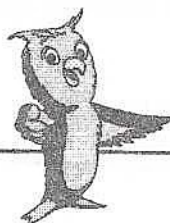
He was experimenting with discharge tubes on the evening of November 8th. 1895 and he had placed a piece of cardboard box over a tube to ensure that no external light fell on it. When he switched on the induction coil which powered the tube he noticed a small glow from a nearby glass bowl which was coated with special chemicals.

Deducing that this must be due to some kind of radiation emanating from the tube, he tried putting his hand between the two - and immediately saw only an image of the bones in his hand.

Not only was this the first known manifestation of X-rays but it was also a dramatic demonstration of their potential value for mankind.

Röntgen was soon able to take an X-ray photo of his wife Bertha's hand (complete with a wedding ring apparently 'floating' around her finger bones), and when published, this and his discovery made him famous around the world.

Röntgen was a shy and reclusive man, and despite the publicity, he made no attempt to use his discovery for personal gain. He was awarded the Nobel Prize for Physics in 1901, but died in 1923 impoverished by the inflation which followed WW1.



WANTED TO BUY

H.F. BEAM - 15M, 20M, 40M or the Lot
Contact Darren - VK3HBL

☎053-301230



B.A.R.G. GOES INTERNATIONAL
We welcome an international member of B.A.R.G.

Greg - N9NAY
QTH - Wheeling - Illinois - USA.
73 from Ballarat Greg.

Hamvention Report from Tom VK3DMK



Well it's over for another year, and the paperwork has been done with some very pleasing results. Our Treasurer will deliver the financial report at the November meeting, but I can pass on some of the statistics:

People through the door	488
Trestles hired	40
Food dispensed	Lots, with little left.
Coffee / Tea	Litres and litres (purchaser of cups has been chastised.)
Space left	None (Chock a block.)
Homebrew Contest	Well patronised. (Winner - VK3KAY, Prizes awarded to all of the participants)
Wireless Display	Excellent equipment of all types. A great potential for 96.
Foxhunts	Two days of events much enjoyed by all competitors.

Now all of this could not have been accomplished without a lot of help in the months leading up to the event and of course on the actual days. This year I had a very good team of cohorts who helped to sort out the varied aspects of setting the Hamvention up at the new site.

With the help of Alan VK3NAS and Doug VK3VBA some funds were raised from the local business houses which helped to offset some of our costs, including a new large banner which Doug organised to have painted at Langi Kal Kal.

Doug, as our publicity officer, organised an article in the local press, along with advertisements leading up to the weekend.

Cliff VK3CCB provided another phone number to gather and dispense trestle bookings and location information as well as run the call-in station and set up the radio displays.

Bob VK3BNC and crew had the daunting task of catering, and along with the BARG ladies group they did an excellent job of providing food throughout the day, as well as much needed coffee and tea right from when the doors opened early for the traders to set up.

Norm VK3LBA with Newsletter, program and magazine insert production also helped greatly with our advertising material.

The call for help to clean and set up the venue was greeted with a great response with local, and not so local, members attending on the Friday. Thanks to Les VK3JEM for the use of the BIG vacuum cleaner. With a lot of the setting up done on the Friday, Saturday afternoon only needed the trestles placed and the cooking area set up. The evening activity was to set up and try out the aerials (insects have antennae) which, apart from setting off the Office burglar alarm and a visit from the local Police, went off quite well.

Sunday itself provided some early morning problems, yes I remembered to put my clock forward, but by 9.00 all was starting to come together, and people began arriving. By 11.00 it was packed.

With a full compliment of trestles and very little walking space, by lunch time we would have to agree that this years hamvention was a great improvement on last years.

The two days of foxhunts provided by Ken VK3VCW and Trevor VK3NTA proved to be another success with pleasing feedback from all of the hounds involved.

The figures above, at the new site, were helped along by our vigilant ticket sellers and members who volunteered for the various jobs that came up during the day.

So a big thank you to all for their excellent help this year. Lets do it all again in 1996

73 de Tom VK3DMK.

(Congratulations to yourself and your team for a huge task well done Tom - Ed.)

6 95/11

What a Beauty

HAMVENTION '95



Did you get there? Or did you miss out on the Hamvention Extravaganza of the year? Our congratulations must go to Tom, Cliff and all of your helpers for a great, well organised day, and whoever ordered the weather should be kept in mind for next year.

The fox hunters were on the job early on Saturday and quietly went about discovering the beauty of the Ballarat landscape the hard way.

The Saturday night dinner was great, about 70 in attendance, and the good food and good company contributed to a really enjoyable evening.

There were a lot of changes of course. A new venue - all under cover, a new food menu expertly prepared by our group of ladies - thank you ladies, and didn't that free coffee take a hiding?

Tom tells me that 488 people came through the door, and it was most noticeable that they stayed a little later this year, and didn't disappear at about 1 pm..

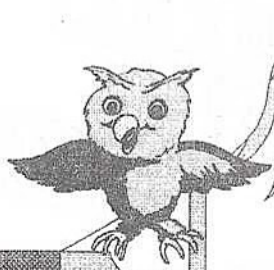
The 320 feet of stall holders seemed to be quite satisfied with the days trading, and I saw many a satisfied OM with a smile on his face as he made it out the door with stuff under his arm for next years junk sale.

Of course there was a great deal of new technology on display also, and the mind boggles as this gear gets smaller and smaller and the capability continues to increase.

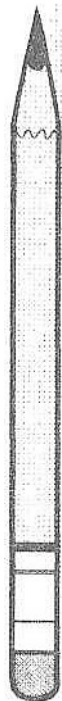
Fox hunters continued to get lost on the Sunday and Ken and Trev were flat chat keeping track of things. Well done fellows, by all accounts the hunters had a great time.

I forget who drew the raffle for the "Bobbie BARG" doll donated by Val Raper, but I happened to have the winning ticket and Bobbie now resides on top of my monitor and tries to interview me all day long. Thanks a lot Val for the donation, it was a great effort. It took a lot of work from quite a few members to arrange and present a show such as this, but 'boy oh boy' it was worth it. It was obvious from the 'radio chatter' from the guys on the way home that we may have set a new benchmark for Hamventions, and the committee has already met to debrief the event and make plans for next year. No doubt they will be looking for your help, so please respond with some assistance if you can help. Well done everybody. Thanks a lot. It was a great weekend, a lot of old friendships were renewed and new ones made. Thats what its all about isn't it.

73 de Norm VK3LBA.



*Have you got a small
article that could feature
on the Clip Board?*



FOR SALE

20Amp Power Supply (was Radio Parts Kit)

Now surplus to requirements - \$150.00

Barry VK3NBM - ☎053-396985

^^^^^^^^

SSTV Group on air.

B.A.R.G. Slow Scan Television Group

The Time ? - 2 pm. - When ? - Saturday Arvos !

Where ? - 28.470mHZ (talk on 146.450mHZ)

How ? - Contact Doug(VK3KAY) Charlie (VK3DCS)

Cliff (VK3CCB) or Richard (VK3JFL)

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PHONE BBS

Ken (VK3IBM) has his phone BBS up and running

To access - Call on 682193

Feel free to browse - No registration fee.

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Wanted

MC-50 DESK MICROPHONE

Contact Jim Wright on ☎053-327563

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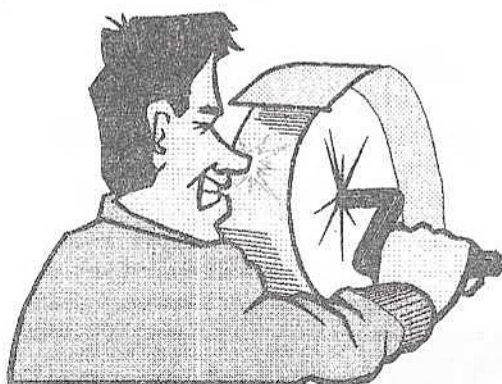
=WANTED=

A HOME

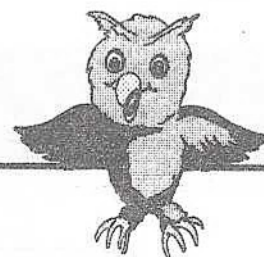


BARG is currently looking for a new activities venue. The ideal site would have facilities for Meetings and Construction Nights and a small Kitchen area. If you know of such a place please make contact with Les VK3JEM.





TAKE
BRAKE



FOXHUNTING - FIND A WORD.

N	T	N	F	R	K	R	R	M	I	X	U	L	P	N	M	U	D	K	X
K	F	C	N	I	N	F	L	E	A	P	O	W	E	R	I	Z	H	E	X
Z	J	R	E	V	I	R	D	K	A	A	Q	D	J	E	J	E	E	Z	G
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D	G	L	O	M	S	A	J	X	L	S	R	C	C	I	S	A	J	Z	U
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E	R	B	L	F	G	F	K	P	O	U	T	Z	F	O	P	N	X	L	S
B	L	A	X	T	O	E	C	W	A	J	N	Z	K	D	G	E	A	P	M
R	D	J	N	W	E	X	D	D	T	R	U	M	Q	P	V	T	A	L	F
O	P	Y	D	S	W	H	H	G	E	F	H	W	E	J	S	T	E	V	P
T	O	V	V	W	M	L	J	F	R	W	X	R	H	J	T	A	C	X	L
A	L	N	M	H	I	I	F	F	O	N	O	I	T	C	E	L	F	E	R
T	I	A	N	R	I	I	T	V	T	K	F	Y	S	V	V	O	U	Z	U
O	C	S	J	G	N	S	Q	A	A	K	M	A	S	Y	L	W	W	J	V
R	E	Q	A	S	P	H	H	D	G	M	U	L	T	I	M	O	D	E	T
I	L	Y	N	C	Q	Y	O	G	I	H	J	E	G	N	P	H	J	O	H
K	E	O	Q	E	O	C	M	Z	V	X	D	E	V	I	O	U	S	A	J
G	B	M	S	H	D	U	D	A	A	W	A	S	L	Q	Z	M	U	R	E
Z	A	M	G	T	I	I	X	T	N	Q	H	O	Z	J	Z	J	R	C	E
Q	U	E	S	M	O	T	H	I	D	N	A	B	I	T	L	U	M	V	N

MULTIMODE
ATTENUATE
ROTATOR
NAVIGATOR
DRIVER
POLICE
GOTCHA
DEVIOUS
LOST
MULTIBAND
FOX
HIDE
SNIFFER
YAGI
REFLECTION
BOGGED
SIGNAL
FLEAPOW
FOXHUNTER
TRANSMIT

TIME LIMIT - 3 COLD TINNIES. (NO STRAWS ALLOWED)



education Report

By the time you read this report BARG will have, or will be conducting an Exam for some prospective Amateurs. We all hope that they do well and a few new calls eventuate.

A tentative date has been set for the Novice theory

classes at BRACE next year - Thursday 24th. February 1996. Anybody who intends to take part in the class, or who knows of anybody interested, keep your eyes open for the BRACE booklet or make enquiries to BRACE or myself in the New Year.



95/11 9

MINISTER FOR COMMUNICATIONS AND THE ARTS
MINISTER FOR TOURISM
THE HON MICHAEL LEE MP

Ms Mary Curnow
A/g Secretary
Ballarat Amateur Radio Group Inc.
Box 1261, Mail Centre
BALLARAT VIC 3354

Dear Ms Curnow

Thank you for your letter of 8 September 1995, concerning interference to the 146-148MHz segment of the two metre amateur band in the Ballarat area.

I asked the Spectrum Management Agency (SMA), which is responsible for management of the radiofrequency spectrum, to investigate the matter you raised.

The SMA has advised me that the Agency has an ongoing compliance program to ensure licensees adhere to their licence conditions. Paging transmitters are required to comply with a number of conditions relating to out-of-band emissions. See condition numbers 3 and 4 of the attached document, *Conditions of Licence for Exterior Paging Station Licences issued under the Radiocommunications Act 1992, (RLC218B)*.

I am also advised that technical officers from the SMA Melbourne office visited two Ballarat amateur radio licensees on 19 September 1995 to investigate the interference. These officers conducted tests on equipment at both amateur station locations and monitored numerous paging frequencies in the Ballarat area. Tests indicated the paging transmitters met the necessary compliance requirement.

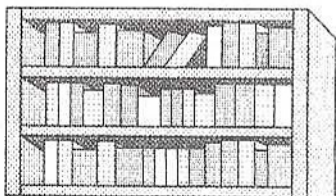
Further tests in the presence of the amateur operators indicated the amateur equipment in both instances was subjected to overload from the paging transmitters resulting in interference being heard. Agency officers demonstrated that the installation of suitable filtering equipment at the amateur installations eliminated the interference. Consequently the amateur operators resolved to fit the appropriate filtering equipment to remove their interference problem.

Should you have any further enquiries in relation to this matter, please contact the Area Manager, SMA Melbourne office on telephone (03) 685 3555 or by writing to PO Box 6444, St Kilda Rd Central Vic 3004.

Yours sincerely

Paul Elliott MP
Parliamentary Secretary

27 OCT 1995



The Library



Title

Author / Pub.

1000 Questions for Novice Candidates - 2 Copies
 1979 DX Listing Callbook
 500 Questions for AOCPC Candidates - 3 Copies
 Amateur Radio Action Magazine - Approx 350 issues
 Amateur Radio Magazine - All Issues
 ARRL Handbook for Radio Amateurs - 1986
 ARRL Handbook for Radio Amateurs - 1988
 ARRL Handbook for Radio Amateurs 1993
 ARRL Satellite Anthology
 Assorted Magazines - QST, CQ, Catalogues etc.
 Basic Electronics
 Build your own Test Equipment
 Creative Circuit Design
 Digital Electronics Revealed
 Electron Colour Tubes
 Electronics - Stage 1
 Electronics Notebook Vol.2
 Electronics Notebook Vol 1 - 2 Copies
 Fairchild Integrated Circuit Data - Vols 1 & 2
 FET Manual
 Guide to Amateur Radio
 Ham Cram Book
 Handbook for Operators of Radio Stations in the Amateur Service
 HF Antennas for all locations
 How to be a Ham
 Into Electronics
 Learning the Radio Telegraph Code
 Low Band DXing
 Mastering the Morse Code
 Maths for Electronic Students
 Novice Antenna Notebook
 Novice Electronics
 Packet Radio Primer
 Philips Preferred Type Range Catalogue 1986
 Philips Radio Amateur Handbook
 Practical Wire Antennas
 QRP Classics
 QRP Club Circuit Handbook
 Questions & Answers for the Novice Candidate
 Radio Communications - Book 1
 Radio Communications Handbook
 Radio Engineering Handbook - 3rd. Edition
 Radio Handbook 1963
 Radio Servicing
 Radio Servicing Volume 1
 Radio Theory Handbook for Amateur Operators - (After March)
 Radio Valve & Teletube Manual - Vol 5.
 Rola Loudspeaker Data
 Satellite Experimenters Handbook
 Single Sideband for Radio Amateurs
 Solid State Design for the Radio Amateur
 Test Equipment for the Radio Amateur
 Transistor Manual - 1983
 Transistor Manual - 1984
 Transistor Substitute Manual - 1983
 UHF / VHF Condominium
 Understanding Amateur Radio
 Valve Data Handbook - Volumes 1, 2, & 3.
 Wire Antennas
 Yaesu FT101 series Maintenance Manual



W.I.A.

W.I.A.

WIA
ARRL
ARRL
ARRL
ARRL

U.S. Navy
Davidson
Gross Blatt
Mitchell
Thorn
Mitchell
Mitchell
Colin Mitchell

RSGB
N.L.O.A.
Comm. of Australia
Moxon
Sessions
W.I.A.
ARRL
Devoldere
Ameco
Tandy.

W.I.A.
Coomler - Croft
Philips
Beard
Heys
ARRL

VK3AKX
RSGB
RSGB
Mc.Craw - Hill

Marcus & Levy
Patchett
Swainston

Davidoff
ARRL
ARRL
RSGB

ARRL
S.T.C.
Orr & Cowan
Yaesu

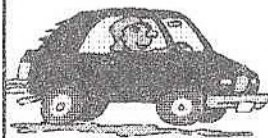


CONTACT RICHARD VK3JFL 32260048



HEWITT & WHITTY

CORNER CARNHAM RD. AND WILTSHIRE LANE



Running on GAS?

Check out the NEW Castrol GAS ENGINE OIL SAE 15W-40SG API rated and designed to ensure maximum engine life and minimum oil consumption for LPG fueled engines.

\$22.00 for 6 litres. (Inc. Tax)

If Diesel's your scene then the great CASTROL RX SUPER SAE 15W-40 has been developed for your vehicle and is equally successful and beneficial in cars using leaded and unleaded petrol \$65.65 for 20 litres (Inc. Tax)

We've also got ROUNDUP HERBICIDE at a good price.
73 de Bill VK3PH



BALLARAT PAGING & COMMUNICATIONS

A Division of Robert Bell & Associates Pty Ltd. ACN 006 956 501

TWO-WAY COMMUNICATIONS SPECIALISTS



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053 - 31 7922

32B DOVETON STREET NORTH.- BALLARAT

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MOTOROLA
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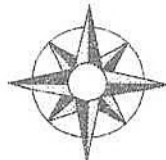
SECURITY EXPRESS

A DIVISION OF MAYNE NICKLESS LTD.

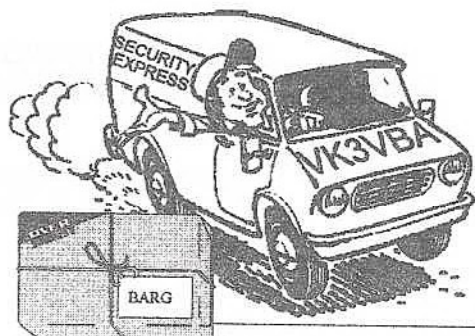
COUNTRY COURIER SERVICES

SPECIALISTS IN
DOOR TO DOOR - VICTORIA WIDE
MAILBAG & PARCELS

OVERNIGHT - BALLARAT - VIC. COUNTRY
SKIPTON - BEAUFORT - DAYLESFORD



STATE OFFICE:
BUILDING 198
CNR. HAMMOND AVE. & BRISTOL AVE.
ESSENDON AIRPORT.



ENQUIRIES
CALLFREE
GEELONG 1800 645252

9 - 11 RODNEY RD.
NORTH GEELONG
FAX 78 5148

OR CONTACT
BALLARAT AGENT
IAN LEISHMAN
018 503682
or
DOUG RAPER VK3VBA
015-368922

COMING EVENTS AND INFORMATION

Wednesday 22nd. November - WICEN Training Night
 Friday 24th. November - General Meeting - Last for 1995. (Pie Night)
 Friday 8th. December - Natter Night - Xmas Tea.



Merry Christmas & Happy New Year

Friday 19th. January 1996 - General Meeting.
 Friday 9th. February 1996 - Natter Night.
 Wednesday 14th. February - Committee Meeting.
 Thursday 22nd. February - Novice Classes start - BRACE

Monday Nights - Practical Nights.
 2M Scramble - Sunday Nights 7.50pm 146.425 to 146.600 Mhz.
 Club Net - Thursday Nights 8pm. 3.610 +/- QRM - (8.30pm during Daylight Saving.)
 WICEN Training Nights - 4th. Wednesday each month.

B.A.R.G.

THE BALLARAT AMATEUR RADIO GROUP INC.

A GROUP OF RADIO ENTHUSIASTS LICENSED TO EXPERIMENT
 WITH LOCAL & INTERNATIONAL RADIO COMMUNICATIONS ON AN AMATEUR BASIS.

NEW MEMBERS ALWAYS WELCOME

12

OFFICIAL NEWSLETTER OF THE BALLARAT AMATEUR RADIO GROUP INC.

B.A.R.G. NEWS



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